

Environmental Compliance

The Environmental Compliance (EC) Group has consistently met all regulatory compliance permitting and reporting requirements on schedule and worked with project managers and LM to provide regulatory updates and expertise as requested. There were no compliance issues or violations during this quarter.

EC completed the following activities and reports identified below during the first quarter of FY 2008:

- Environmental restoration monthly reports for Mound
- Monthly discharge monitoring reports for Mound, Fernald, Weldon Spring, and Durango
- Annual pollution prevention reports for all sites
- Annual environmentally preferred purchasing report for all sites
- Input to the annual EMS report
- NEPA quarterly updates
- Biennial Resource Conservation and Recovery Act 3016 reports for all applicable sites
- Ambient air monitoring for the Grand Junction Disposal Site
- Weekly inspections of the Grand Junction Disposal Site
- Radioactive effluent report for Mound
- Annual site inspection for Weldon Spring
- On-Site Disposal Facility quarterly inspection for Fernald
- Quarterly chemical hygiene inspection of the Environmental Sciences Library
- Regulatory history for the Nevada Offsites, Rulison Site

Job-specific training to support Stoller and DOE-LM environmental compliance included the following:

- Electronic Discharge Monitoring Reporting System Ohio Environmental Protection Agency Training
- Lockout/Tagout
- Advanced Radioactive Materials and Transportation

Environmental Management System

Stoller continued to work with LM to more fully implement the joint Environmental Management System (EMS) in accordance with the requirements of Executive Order 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*, and DOE Order 450.1, *Environmental Protection Program*. To accomplish this, the majority of EMS efforts were directed toward developing individual EMS programs to implement and manage multiple environmental focus areas within LM: energy efficiency, renewable energy, water conservation, environmentally preferable purchasing, waste minimization and pollution

prevention, sustainable buildings, vehicle and fuel use, electronics stewardship, and land stewardship.

Following is a summary of EMS accomplishments that contributed to the development of individual EMS programs and other EMS activities that occurred during the first quarter of FY 2008.

- To enhance the integration of EMS into the purchasing process, the Contracts and Procurement group added FAR 52.223-2, “Affirmative Procurement of Biobased Products,” to the terms and conditions for service and construction. They also added FAR 52.223-15, “Energy Efficiency in Energy-Consuming Products,” to the terms and conditions for commodities, services, and construction.
- Budgets and schedules were developed for EMS activities expected to occur during FY 2008, including rolling out nine EMS programs.
- Multiple EMS Core Team meetings were conducted to define individual EMS programs, assign program team leaders, and facilitate development of program mission statements and charters.
- Teams were formed to develop and implement each EMS program. Teams consist of a Stoller team leader, DOE advocate, and other Stoller team members.
- Draft mission statements and charters were developed for each EMS program.
- The LEED Gold Fernald Visitor Center is progressing rapidly. The following achievements were realized during this quarter:
 - Over 95 percent of materials to be generated as a result of initial building renovations have been identified for recycle or salvage.
 - Contractor Storm Water Pollution Prevention Plan was approved for LEED sustainable building prerequisite credit submittal.
 - Reviews of the waste management plan, 30 percent design for bio-wetland, and 90 percent design for the center are under way.
 - LEED for New Construction Technical Review Workshop was attended.
 - The LEED Registered Project Checklist has been completed. Currently, the site is pursuing 47 points to obtain LEED Gold Certification, which has a range of 39–51 points.
- Review comments and a corrective action plan were submitted for the EMS Assessment Report IA-07-11, which was issued on November 6, 2007.
- An EPP pocket guide was created and issued to Stoller team credit card holders.
- EMS staff participated in DOE Headquarters’ (HQ) quarterly EPP teleconference.
- EMS staff assisted the LM EMS lead with completing the LM annual EMS report.
- Fernald announced the availability of used resin from the ion-exchange groundwater treatment system on the DOE Waste Not website for possible reuse by another federal agency.
- A Recycling Update bulletin was issued that summarized recycling totals for LM sites during FY 2007.

- Annual pollution prevention and EPP reports were completed for affected LM sites and submitted to the LM EMS lead for submittal to DOE HQ.
- The Grand Junction Site recycled approximately 2,400 pounds of scrap metal.
- In response to requirements specified in the Grand Junction Site's lease renewal agreement that was signed in late FY 2007, office renovations performed by the site landlord include or are planned to include low volatile organic compound (VOC) paint, recycled-content carpet with low VOC adhesives, programmable thermostats, energy efficient windows, new energy efficient evaporative coolers, and water efficient fixtures (e.g., toilets, sinks, and water fountains).
- An office furniture supply company that emphasizes "sustainability" in its products was chosen for replacing office furniture at the Grand Junction Site as part of ongoing office remodeling. Examples of features in the new office furniture being purchased include 100 percent recycled or compostable fabrics, an average of 30 percent recycled content steel, an average of 20 percent recycled content aluminum, 50 percent recycled content particle board, and at least 70 percent recycled content packaging materials.
- The Central Nevada Test Area Site recycled approximately 4,000 feet of electrical cable having a salvage value of approximately \$2,470.
- EMS performance during FY 2007 was compiled for inclusion in the FY 2007 fourth quarter Performance Assurance Summary and the FY 2007 CPAF report. The following table summarizes final performance toward the FY 2007 EMS goals and initiatives. Performance is rated by color according to the level of achievement: red—goal not achieved; green—goal achieved, gold—goal exceeded.

Table 3. Summary of FY 2007 EMS Goals, Initiatives, and Achievements

Goal or Initiative	Achievement
Reduce copier/printer paper use at LM sites and the Moab Site by 5 percent per employee.	Copier/printer paper use was reduced by approximately 3.8 percent per employee.
Reduce travel to LM sites by 5 percent (actual travel compared to budgeted travel).	Actual travel costs were approximately 31 percent less than budgeted travel costs.*
Enroll one additional LM site in a renewable energy program.	The Fernald Site was enrolled in a renewable energy program.*
Increase renewable energy use at two LM sites and the Moab Site by 5 percent.	Two LM sites and the Moab Project increased renewable energy use as follows:* <ul style="list-style-type: none"> • Grand Junction Disposal Site – 140 percent • Monticello Site – 100 percent • Moab – 295 percent
Use two additional "green products" at the Moab Site (e.g., bio-based hydraulic fluids, lubricants, or solvents).	Biobased oil and biobased grease were used at the Moab Site.*
Use higher recycled content paper (50 percent recycled content instead of 30 percent) at three LM sites.	The Fernald, Mound, and Weldon Spring Sites tested 50 percent recycled content copier/printer paper.
Establish a more formalized electronics recycling program at the Grand Junction Site.	An electronics recycling procedure was developed for all DOE-LM sites. The Grand Junction and Weldon Spring Sites each recycled several tons of used electronic equipment.
Provide Environmentally Preferable Purchasing (EPP) awareness training to pertinent staff (procurement, routine purchasers, those with credit cards, etc.).	EPP general awareness training was distributed to the entire Stoller LM workforce and the DOE LM EMS Lead, who provided the training to certain DOE LM personnel.
Compile baseline data for energy use at LM sites where data is available and identify sites that can establish energy reduction goals.	Baseline electricity use data was compiled for six DOE LM sites, which will be used in the future to establish energy reduction goals.*

*Energy or fuel conservation related goals or initiatives.

- Posters were created to illustrate the benefits of paper and aluminum recycling that occurred at LM sites during FY2007. These were distributed to the sites and posted at strategic locations.

Because the majority of EMS efforts during the first quarter of FY 2008 were directed toward developing individual EMS programs, no performance has been taken toward the FY 2008 EMS goals and initiatives. The FY 2008 goals and initiatives are noted in the following table.

Table 4. FY 2008 Environmental Management System Goals and Initiatives

Goals
1. Reduce copier/printer paper use at LM sites by 5 percent per employee.
2. Reduce travel to LM sites by 5 percent (actual travel compared to budgeted travel).
3. Enroll one additional LM site in a renewable energy program.
4. Increase renewable energy use at two LM sites by 5 percent.
5. Use two additional “green products” at any LM sites.
Initiatives
1. Study feasibility of installing additional solar-powered equipment at LM sites; establish new target by April 1, 2008.
2. Study feasibility of reuse/regeneration of the ion-exchange resin at the Fernald site's Converted Advanced Waste Water Treatment facility; establish new target by April 1, 2008.
3. Study feasibility of changing the LM General Services Administration (GSA) vehicle fleet to more fuel-efficient vehicles; establish new target by April 1, 2008.

Table 5. First Quarter FY 2008 Recycling Totals

FY 2008 Recycling Totals	Oct	Nov	Dec	1st Quarter Total
Office Paper (lb)	6769.5	5908	4025	16702.5
Cardboard (lb)	328	270	1105	1703
Plastic (lb)	85	85	83	253
Magazines (lb)	291	85	75	451
Steel (lb)	10	5	5	20
Glass (lb)	10	35	15	60
Aluminum (lb)	62	39	49.5	150.5
Newspapers (lb)	100	80	100	280
Phone Books (lb)	20	30	30	80
Toner Cartridges (ea)	4	41	33	78
TOTAL (lb)	7675.5	6537	5487.5	19700